

# INTERNATIONAL SEARCH REPORT

national application No.  
/CA2005/000357

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - ☒ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☒ on paper
    - ☒ in electronic form
  - c. time of filing/furnishing
    - ☒ contained in the international application as filed.
    - ☐ filed together with the international application in electronic form
    - ☐ furnished subsequently to this Authority for the purposes of search.
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments :

# INTERNATIONAL SEARCH REPORT

International application No.  
1...CA2005/000357

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. : 22 to 29, 31, 32, 35 to 37 and 55

because they relate to subject matter not required to be searched by this Authority, namely :

Claims 22 to 27 encompass methods of treatment since a candidate drug is administered to a subject in claims 23 and 26. Although claims 22 to 29, 31, 32 and 35 to 37 encompass methods of treatment of the human/animal body which this Authority is not obliged to search under Rule 39.1(iv) of the PCT, the search has been carried out based on the alleged use of the antibiotic agent in the treatment of a subject. Also, claim 55 is directed to a computer readable medium which is distinguished only by the information stored thereon, which is non-functional descriptive material. Therefore, claim 55 does not comply with Rule 39.1(v) of the PCT.

2. ☐ Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3. ☐ Claim Nos. :

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest** ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

International application No.  
CT/CA2005/000357

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): C07H 21/00, C12Q 1/68, A61K 45/00, A61P 31/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): C07H 21/00, C12Q 1/68, A61K 45/00, A61P 31/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion, Pubmed, Biosis, Caplus, STN Registry

Keywords: Toll-Like (TLR-2), polymorphism, genotype, single nucleotide polymorphism

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	EDER, W., et al., "Toll-like receptor 2 as a major gene for asthma in children of European farmers", Journal of Allergy and Clinical Immunology. March 2004, Vol. 113, no. 3, pages 482-488.	18 to 20, 49 to 51 and 54
Y, P	(See TLR-2 -16934 probes)	1 to 17, 21 to 48, 52 and 53
X	LORENZ, E., et al., "A novel polymorphism in the Toll-Like Receptor 2 gene and its potential association with Staphylococcal infection", Infection and Immunity. November 2000, Vol. 68, no. 11, pages 6398-6401. Whole Document.	1, 3 to 9, 11, 12, 14, 16 to 18, 20, 22 to 34, 38 to 40 and 42 to 46
X	HAMANN, L., et al., "Rapid and inexpensive real-time PCR for genotyping functional polymorphisms within the Toll-like receptor -2, -4 and -9 genes", Journal of Immunological Methods. February 2004, Vol. 285, no. 2, pages 281-291. Whole Document.	1, 3 to 9, 11, 12, 14, 16 to 18, 20, 22 to 34, 38 to 40 and 42 to 46

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

25 May 2005 (25-05-2005)

Date of mailing of the international search report

6 July 2005 (06-07-2005)

Name and mailing address of the ISA/CA  
Canadian Intellectual Property Office  
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# INTERNATIONAL SEARCH REPORT

International application No.  
CT/CA2005/000357

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0620225 A1 (F. HOFFMAN-LAROCHE AG) 19 October 1994. Whole Document.	28, 29 and 31 to 39
A	HOLMES, C. L., et al., "Genetic polymorphisms in sepsis and septic shock", CHEST. September 2003, Vol. 124, no. 3, pages 1103-1115. Whole Document	1 to 54

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.  
PCT/CA2005/000357

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
EP0620225	19-10-1994	AT227728T T	15-11-2002
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		AU5949494 A	20-10-1994
		BG61450 B1	29-08-1997
		BG98723 A	31-03-1995
		BR9401503 A	25-10-1994
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		CZ9400913 A3	16-11-1994
		DE69431691D D1	19-12-2002
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		DK620225T T3	17-03-2003
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		FI941775 A	17-10-1994
		GB2277737 A	09-11-1994
		HK1000423 A1	20-03-1998
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		JP2845752B2 B2	13-01-1999
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		NO305601B B1	28-06-1999
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		PT620225T T	31-03-2003
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		RU2130939 C1	27-05-1999
		SG49814 A1	15-06-1998
		SK42694 A3	08-02-1995
		TW412537 B	21-11-2000
		US5523400 A	04-06-1996
		ZA9402612 A	17-10-1994
		ZW4794 A1	05-01-1995